2025 Results

HCS Arterial Planning Results – 2025 P.M. Peak Hour

Exterior Roadways

Aquarius Drive

_____PLANNING ANALYSIS_____

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Aquarius Drive
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID: Golden Valley Ranch Master Traffic Study	

_____Traffic Characteristics_____

Annual average daily traffic, AADT	26000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

_____Roadway Characteristics_____

Number of through lanes one direction, N	2	
Free flow speed, FFS	40	mph
Urban class	2	
Section length	4.60	miles
Median	No	
Left-turn bays	Yes	

_____Signal Characteristics_____

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

_____Results_____

Annual average daily traffic, AADT	26000	vpd
Two-way hourly volume	2340	vph
Hourly directional volume	1170	vph
Through-volume 15-min. flow rate	650	v
Running time	414.0	sec
v/c ratio	0.32	
Through capacity	2050	vph
Progression factor, PF	1.000	
Uniform delay	8.9	sec
Filtering/metering factor, I	0.958	
Incremental delay	0.4	sec
Control delay	9.3	sec/v
Total travel speed, Sa	38.3	mph
Total urban street LOS	A	

Aztec Road

_____ PLANNING ANALYSIS _____

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc.
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Aztec Road
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

_____ Traffic Characteristics _____

Annual average daily traffic, AADT	44000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

_____ Roadway Characteristics _____

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	4.40	miles
Median	Yes	
Left-turn bays	Yes	

_____ Signal Characteristics _____

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

_____ Results _____

Annual average daily traffic, AADT	44000	vpd
Two-way hourly volume	3960	vph
Hourly directional volume	1980	vph
Through-volume 15-min. flow rate	1100	v
Running time	352.0	sec
v/c ratio	0.34	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	9.0	sec
Filtering/metering factor, I	0.950	
Incremental delay	0.3	sec
Control delay	9.3	sec/v
Total travel speed, Sa	42.7	mph
Total urban street LOS	A	

Bacobi Road

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_____PLANNING ANALYSIS_____
Analyst:                 Kondala Rao Mantri
Agency/Co.:              Stanley Consultants, Inc
Date Performed:          5/9/2006
Analysis Time Period:    P.M. Peak Hour
Urban Street:            Bacobi Road
Direction of Travel:
Jurisdiction:            Mohave County, AZ
Analysis Year:           2025
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT    37000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800      pcphgpl
Percent turns from exclusive lanes     50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                       45          mph
Urban class                                2
Section length                             4.40        miles
Median                                     Yes
Left-turn bays                             Yes


_____Signal Characteristics_____

Signalized intersections                   2
Arrival type, AT                           3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                            90.0        sec
Effective green ratio, g/C                 0.600


_____Results_____

Annual average daily traffic, AADT    37000      vpd
Two-way hourly volume                  3330      vph
Hourly directional volume              1665      vph
Through-volume 15-min. flow rate        925      v
Running time                           352.0      sec
v/c ratio                               0.43
Through capacity                       2160      vph
Progression factor, PF                 1.000
Uniform delay                           9.7       sec
Filtering/metering factor, I           0.906
Incremental delay                       0.6       sec
Control delay                          10.3       sec/v
Total travel speed, Sa                 42.5       mph
Total urban street LOS                 A
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Colorado Road

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                            PLANNING ANALYSIS
Analyst:                 Kondala Rao Mantri
Agency/Co.:              Stanley Consultants, Inc
Date Performed:          5/9/2006
Analysis Time Period:    P.M. Peak Hour
Urban Street:            Colorado Road
Direction of Travel:
Jurisdiction:            Mohave County, AZ
Analysis Year:           2025
Project ID:  Golden Valley Ranch Master Traffic Study


                         Traffic Characteristics

Annual average daily traffic, AADT   20000      vpd
Planning analysis hour factor, K     0.090
Directional distribution factor, D   0.500
Peak-hour factor, PHF                0.900
Adjusted saturation flow rate        1800       pcphgpl
Percent turns from exclusive lanes   50         %


                         Roadway Characteristics

Number of through lanes one direction, N  2
Free flow speed, FFS                      45        mph
Urban class                               2
Section length                            4.60      miles
Median                                    Yes
Left-turn bays                            Yes


                         Signal Characteristics

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0       sec
Effective green ratio, g/C            0.600


                              Results

Annual average daily traffic, AADT   20000      vpd
Two-way hourly volume                1800       vph
Hourly directional volume            900        vph
Through-volume 15-min. flow rate     500        v
Running time                         368.0      sec
v/c ratio                            0.23
Through capacity                     2160       vph
Progression factor, PF               1.000
Uniform delay                        8.4        sec
Filtering/metering factor, I         0.982
Incremental delay                    0.2        sec
Control delay                        8.6        sec/v
Total travel speed, Sa               43.0       mph
Total urban street LOS               A
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Sacramento Road

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_____PLANNING ANALYSIS_____
Analyst:                   Kondala Rao Mantri
Agency/Co.:                Stanley Consultants, Inc
Date Performed:            5/9/2006
Analysis Time Period:      P.M. Peak Hour
Urban Street:              Sacramento Road
Direction of Travel:
Jurisdiction:              Mohave County, AZ
Analysis Year:             2025
Project ID:  Golden Valley Ranch Master Traffic Study
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_____Traffic Characteristics_____

Annual average daily traffic, AADT    18000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800      pcphgpl
Percent turns from exclusive lanes     50         %
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```
_____Roadway Characteristics_____

Number of through lanes one direction, N  2
Free flow speed, FFS                      40        mph
Urban class                               2
Section length                            5.00      miles
Median                                    Yes
Left-turn bays                            Yes
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_____Signal Characteristics_____

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0      sec
Effective green ratio, g/C            0.600
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_____Results_____

Annual average daily traffic, AADT    18000      vpd
Two-way hourly volume                  1620       vph
Hourly directional volume              810        vph
Through-volume 15-min. flow rate       450        v
Running time                           450.0      sec
v/c ratio                              0.21
Through capacity                       2160       vph
Progression factor, PF                 1.000
Uniform delay                          8.2        sec
Filtering/metering factor, I           0.986
Incremental delay                      0.2        sec
Control delay                          8.4        sec/v
Total travel speed, Sa                 38.6       mph
Total urban street LOS                 A
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ST-RH038175

Shinarump Drive

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_____PLANNING ANALYSIS_____
Analyst:                   Kondala Rao Mantri
Agency/Co.:                Stanley Consultants, Inc
Date Performed:            5/9/2006
Analysis Time Period:      P.M. Peak Hour
Urban Street:              Shinarump Drive
Direction of Travel:
Jurisdiction:              Mohave County, AZ
Analysis Year:             2025
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT    26000       vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800        pcphgpl
Percent turns from exclusive lanes     50          %


_____Roadway Characteristics_____

Number of through lanes one direction, N  3
Free flow speed, FFS                      45         mph
Urban class                               2
Section length                            5.00       miles
Median                                    Yes
Left-turn bays                            Yes


_____Signal Characteristics_____

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0         sec
Effective green ratio, g/C            0.600


_____Results_____

Annual average daily traffic, AADT    26000       vpd
Two-way hourly volume                 2340        vph
Hourly directional volume             1170        vph
Through-volume 15-min. flow rate      650         v
Running time                          400.0       sec
v/c ratio                             0.20
Through capacity                      3240        vph
Progression factor, PF                1.000
Uniform delay                         8.2         sec
Filtering/metering factor, I          0.988
Incremental delay                     0.1         sec
Control delay                         8.3         sec/v
Total travel speed, Sa                43.2        mph
Total urban street LOS                A
```

Tombstone Trail

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Tombstone Trail
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	8000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	40	mph
Urban class	2	
Section length	8.00	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	8000	vpd
Two-way hourly volume	720	vph
Hourly directional volume	360	vph
Through-volume 15-min. flow rate	200	v
Running time	720.0	sec
v/c ratio	0.09	
Through capacity	2160	vph
Progression factor, PF	1.000	
Uniform delay	7.6	sec
Filtering/metering factor, I	0.998	
Incremental delay	0.1	sec
Control delay	7.7	sec/v
Total travel speed, Sa	39.2	mph
Total urban street LOS	A	

Interior Roadways

Aztec Road Extension

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_____PLANNING ANALYSIS_____
Analyst:              Kondala Rao Mantri
Agency/Co.:           Stanley Consultants, Inc
Date Performed:       5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street:         Aztec Road Extension
Direction of Travel:
Jurisdiction:         Mohave County, AZ
Analysis Year:        2025
Project ID:  Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT    41000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D      0.500
Peak-hour factor, PHF                   0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes      50         %

_____Roadway Characteristics_____

Number of through lanes one direction, N  3
Free flow speed, FFS                       45       mph
Urban class                                2
Section length                             2.30     miles
Median                                     Yes
Left-turn bays                             Yes

_____Signal Characteristics_____

Signalized intersections               2
Arrival type, AT                       3
Signal type (k = 0.5 for planning)     Actuated
Cycle length, C                        90.0       sec
Effective green ratio, g/C             0.600

_____Results_____

Annual average daily traffic, AADT     41000      vpd
Two-way hourly volume                  3690       vph
Hourly directional volume              1845       vph
Through-volume 15-min. flow rate       1025       v
Running time                           184.0      sec
v/c ratio                              0.32
Through capacity                       3240       vph
Progression factor, PF                 1.000
Uniform delay                          8.9        sec
Filtering/metering factor, I           0.958
Incremental delay                      0.2        sec
Control delay                          9.1        sec/v
Total travel speed, Sa                 40.9       mph
Total urban street LOS                 A
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Bacobi Road Extension

<pre>
_____PLANNING ANALYSIS_____
Analyst: Kondala Rao Mantri
Agency/Co.:   Stanley Consultants, Inc
Date Performed: 5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street: Bacobi Road Extension
Direction of Travel:
Jurisdiction: Mohave County, AZ
Analysis Year: 2025
Project ID: Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT   40000   vpd
Planning analysis hour factor, K   0.090
Directional distribution factor, D   0.500
Peak-hour factor, PHF   0.900
Adjusted saturation flow rate   1800   pcphgpl
Percent turns from exclusive lanes   50   %

_____Roadway Characteristics_____

Number of through lanes one direction, N 2
Free flow speed, FFS   35   mph
Urban class   3
Section length   0.60   miles
Median   No
Left-turn bays   Yes

_____Signal Characteristics_____

Signalized intersections   2
Arrival type, AT   3
Signal type (k = 0.5 for planning)   Actuated
Cycle length, C   90.0   sec
Effective green ratio, g/C   0.600

_____Results_____

Annual average daily traffic, AADT   40000   vpd
Two-way hourly volume   3600   vph
Hourly directional volume   1800   vph
Through-volume 15-min. flow rate   1000   v
Running time   67.2   sec
v/c ratio   0.49
Through capacity   2050   vph
Progression factor, PF   1.000
Uniform delay   10.2   sec
Filtering/metering factor, I   0.867
Incremental delay   0.7   sec
Control delay   10.9   sec/v
Total travel speed, Sa   24.3   mph
Total urban street LOS   B
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Centennial Road Extension

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_____PLANNING ANALYSIS_____
Analyst:                 Kondala Rao Mantri
Agency/Co.:              Stanley Consultants, Inc
Date Performed:          5/9/2006
Analysis Time Period:    P.M. Peak Hour
Urban Street:            Centennial Road Extension
Direction of Travel:
Jurisdiction:            Mohave County, AZ
Analysis Year:           2025
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT    30000      vpd
Planning analysis hour factor, K      0.090
Directional distribution factor, D    0.500
Peak-hour factor, PHF                 0.900
Adjusted saturation flow rate         1800       pcphgpl
Percent turns from exclusive lanes    50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                        35         mph
Urban class                                 3
Section length                              1.00       miles
Median                                      Yes
Left-turn bays                              Yes


_____Signal Characteristics_____

Signalized intersections                2
Arrival type, AT                        3
Signal type (k = 0.5 for planning)      Actuated
Cycle length, C                         90.0       sec
Effective green ratio, g/C              0.600


_____Results_____

Annual average daily traffic, AADT    30000      vpd
Two-way hourly volume                  2700       vph
Hourly directional volume              1350       vph
Through-volume 15-min. flow rate       750        v
Running time                           103.0      sec
v/c ratio                              0.35
Through capacity                       2160       vph
Progression factor, PF                 1.000
Uniform delay                          9.1        sec
Filtering/metering factor, I           0.947
Incremental delay                      0.4        sec
Control delay                          9.5        sec/v
Total travel speed, Sa                 29.5       mph
Total urban street LOS                 B
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Cerbat Road Extension

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_____PLANNING ANALYSIS_____
Analyst:              Kondala Rao Mantri
Agency/Co.:           Stanley Consultants, Inc
Date Performed:       5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street:         Cerbat Road Extension
Direction of Travel:
Jurisdiction:         Mohave County, AZ
Analysis Year:        2025
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT     10000     vpd
Planning analysis hour factor, K        0.090
Directional distribution factor, D      0.500
Peak-hour factor, PHF                   0.900
Adjusted saturation flow rate           1800     pcphgpl
Percent turns from exclusive lanes      50        %


_____Roadway Characteristics_____

Number of through lanes one direction, N  2
Free flow speed, FFS                       35         mph
Urban class                                3
Section length                             1.00       miles
Median                                     No
Left-turn bays                             Yes


_____Signal Characteristics_____

Signalized intersections            2
Arrival type, AT                    3
Signal type (k = 0.5 for planning)  Actuated
Cycle length, C                     90.0      sec
Effective green ratio, g/C          0.600


_____Results_____

Annual average daily traffic, AADT     10000     vpd
Two-way hourly volume                    900      vph
Hourly directional volume                450      vph
Through-volume 15-min. flow rate         250      v
Running time                             103.0    sec
v/c ratio                                0.12
Through capacity                         2050     vph
Progression factor, PF                   1.000
Uniform delay                            7.8      sec
Filtering/metering factor, I             0.997
Incremental delay                        0.1      sec
Control delay                            7.9      sec/v
Total travel speed, Sa                   30.3     mph
Total urban street LOS                   A
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East Loop Road

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_____PLANNING ANALYSIS_____
Analyst:                Kondala Rao Mantri
Agency/Co.:             Stanley Consultants, Inc
Date Performed:         5/9/2006
Analysis Time Period:   P.M. Peak Hour
Urban Street:           East Loop Road
Direction of Travel:
Jurisdiction:           Mohave County, AZ
Analysis Year:          2025
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT   34000     vpd
Planning analysis hour factor, K      0.090
Directional distribution factor, D    0.500
Peak-hour factor, PHF                 0.900
Adjusted saturation flow rate         1800      pcphgpl
Percent turns from exclusive lanes    50        %


_____Roadway Characteristics_____

Number of through lanes one direction, N  2
Free flow speed, FFS                       35        mph
Urban class                                2
Section length                             3.50      miles
Median                                     Yes
Left-turn bays                             Yes


_____Signal Characteristics_____

Signalized intersections           2
Arrival type, AT                   3
Signal type (k = 0.5 for planning) Actuated
Cycle length, C                    90.0      sec
Effective green ratio, g/C         0.600

_____Results_____

Annual average daily traffic, AADT   34000     vpd
Two-way hourly volume                3060      vph
Hourly directional volume            1530      vph
Through-volume 15-min. flow rate     850       v
Running time                         360.0     sec
v/c ratio                            0.39
Through capacity                     2160      vph
Progression factor, PF               1.000
Uniform delay                        9.4       sec
Filtering/metering factor, I         0.925
Incremental delay                    0.5       sec
Control delay                        9.9       sec/v
Total travel speed, Sa               33.2      mph
Total urban street LOS               B
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East Middle Road

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                         PLANNING ANALYSIS
Analyst:                Kondala Rao Mantri
Agency/Co.:             Stanley Consultants, Inc
Date Performed:         5/9/2006
Analysis Time Period:   P.M. Peak hour
Urban Street:           East Middle Road
Direction of Travel:
Jurisdiction:           Mohave County, AZ`
Analysis Year:          2025
Project ID:  Golden Valley Ranch Master Traffic Study


                          Traffic Characteristics

Annual average daily traffic, AADT   8500      vpd
Planning analysis hour factor, K     0.090
Directional distribution factor, D   0.500
Peak-hour factor, PHF                0.900
Adjusted saturation flow rate        1800      pcphgpl
Percent turns from exclusive lanes   50        %


                          Roadway Characteristics

Number of through lanes one direction, N   2
Free flow speed, FFS                       30       mph
Urban class                                3
Section length                             1.40     miles
Median                                     No
Left-turn bays                             No


                          Signal Characteristics

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0     sec
Effective green ratio, g/C            0.600


                          Results

Annual average daily traffic, AADT   8500      vpd
Two-way hourly volume                765       vph
Hourly directional volume            382       vph
Through-volume 15-min. flow rate     212       v
Running time                         168.0     sec
v/c ratio                            0.12
Through capacity                     1726      vph
Progression factor, PF               1.000
Uniform delay                        7.8       sec
Filtering/metering factor, I         0.997
Incremental delay                    0.1       sec
Control delay                        7.9       sec/v
Total travel speed, Sa               27.4      mph
Total urban street LOS               B
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Hualapai Drive Extension

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_____PLANNING ANALYSIS_____
Analyst:                Kondala Rao Mantri
Agency/Co.:             Stanley Consultants, Inc
Date Performed:         5/9/2006
Analysis Time Period:   P.M. Peak Hour
Urban Street:           Hualapai Drive Extension
Direction of Travel:
Jurisdiction:           Mohave County, AZ
Analysis Year:          2025
Project ID:  Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT    13000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes     50         %

_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                        30        mph
Urban class                                 3
Section length                              2.20      miles
Median                                      No
Left-turn bays                              No

_____Signal Characteristics_____

Signalized intersections                2
Arrival type, AT                        3
Signal type (k = 0.5 for planning)      Actuated
Cycle length, C                         90.0       sec
Effective green ratio, g/C              0.600

_____Results_____

Annual average daily traffic, AADT    13000      vpd
Two-way hourly volume                  1170       vph
Hourly directional volume              585        vph
Through-volume 15-min. flow rate       325        v
Running time                           264.0      sec
v/c ratio                              0.19
Through capacity                       1726       vph
Progression factor, PF                 1.000
Uniform delay                          8.1        sec
Filtering/metering factor, I           0.990
Incremental delay                      0.2        sec
Control delay                          8.4        sec/v
Total travel speed, Sa                 28.2       mph
Total urban street LOS                 B
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Indian Wells Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Indian Wells Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	8000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.30	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	8000	vpd
Two-way hourly volume	720	vph
Hourly directional volume	360	vph
Through-volume 15-min. flow rate	200	v
Running time	156.0	sec
v/c ratio	0.12	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	7.7	sec
Filtering/metering factor, I	0.997	
Incremental delay	0.1	sec
Control delay	7.9	sec/v
Total travel speed, Sa	27.2	mph
Total urban street LOS	B	

Mobile Road Extension

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_____PLANNING ANALYSIS_____
Analyst:             Kondala Rao Mantri
Agency/Co.:          Stanley Consultants. Inc
Date Performed:      5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street:        Mobile Road Extension
Direction of Travel:
Jurisdiction:        Mohave County, AZ
Analysis Year:       2025
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT   20000      vpd
Planning analysis hour factor, K      0.090
Directional distribution factor, D    0.500
Peak-hour factor, PHF                 0.900
Adjusted saturation flow rate         1800       pcphgpl
Percent turns from exclusive lanes    50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N  2
Free flow speed, FFS                     35        mph
Urban class                              3
Section length                           0.70      miles
Median                                   No
Left-turn bays                           No


_____Signal Characteristics_____

Signalized intersections             2
Arrival type, AT                     3
Signal type (k = 0.5 for planning)   Actuated
Cycle length, C                      90.0      sec
Effective green ratio, g/C           0.600


_____Results_____

Annual average daily traffic, AADT   20000      vpd
Two-way hourly volume                1800       vph
Hourly directional volume            900        vph
Through-volume 15-min. flow rate     500        v
Running time                         75.3       sec
v/c ratio                            0.29
Through capacity                     1726       vph
Progression factor, PF               1.000
Uniform delay                        8.7        sec
Filtering/metering factor, I         0.967
Incremental delay                    0.4        sec
Control delay                        9.1        sec/v
Total travel speed, Sa               27.0       mph
Total urban street LOS               B
```

Ramada Road Extension

```
_____PLANNING ANALYSIS_____
Analyst:               Kondala Rao Mantri
Agency/Co.:            Stanley Consultants. Inc
Date Performed:        5/9/2006
Analysis Time Period:  P.M. Peak Hour
Urban Street:          Ramada Road Extension
Direction of Travel:
Jurisdiction:          Mohave County, AZ
Analysis Year:         2025
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT    15000      vpd
Planning analysis hour factor, K      0.090
Directional distribution factor, D    0.500
Peak-hour factor, PHF                 0.900
Adjusted saturation flow rate         1800       pcphgpl
Percent turns from exclusive lanes    50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N  2
Free flow speed, FFS                      35       mph
Urban class                               3
Section length                            2.40     miles
Median                                    No
Left-turn bays                            No


_____Signal Characteristics_____

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0       sec
Effective green ratio, g/C            0.600


_____Results_____

Annual average daily traffic, AADT    15000      vpd
Two-way hourly volume                 1350       vph
Hourly directional volume             675        vph
Through-volume 15-min. flow rate      375        v
Running time                          246.9      sec
v/c ratio                             0.22
Through capacity                      1726       vph
Progression factor, PF                1.000
Uniform delay                         8.3        sec
Filtering/metering factor, I          0.985
Incremental delay                     0.3        sec
Control delay                         8.6        sec/v
Total travel speed, Sa                32.7       mph
Total urban street LOS                A
```

Sacramento Road Extension

```
_____PLANNING ANALYSIS_____
Analyst:                 Kondala Rao Mantri
Agency/Co.:              Stanley Consultants, Inc
Date Performed:          5/9/2006
Analysis Time Period:    P.M. Peak Hour
Urban Street:            Sacramento Road Extension
Direction of Travel:
Jurisdiction:            Mohave County, AZ
Analysis Year:           2025
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT    33000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                   0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes     50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N   3
Free flow speed, FFS                        45        mph
Urban class                                 2
Section length                              1.10      miles
Median                                      Yes
Left-turn bays                              Yes


_____Signal Characteristics_____

Signalized intersections            2
Arrival type, AT                    3
Signal type (k = 0.5 for planning)  Actuated
Cycle length, C                     90.0      sec
Effective green ratio, g/C          0.600


_____Results_____

Annual average daily traffic, AADT   33000      vpd
Two-way hourly volume                2970       vph
Hourly directional volume            1485       vph
Through-volume 15-min. flow rate     825        v
Running time                         95.9       sec
v/c ratio                            0.25
Through capacity                     3240       vph
Progression factor, PF               1.000
Uniform delay                        8.5        sec
Filtering/metering factor, I         0.977
Incremental delay                    0.2        sec
Control delay                        8.7        sec/v
Total travel speed, Sa               35.0       mph
Total urban street LOS               B
```

TC Connector

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	TC Connecter
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2025
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	24500	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.30	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	24500	vpd
Two-way hourly volume	2205	vph
Hourly directional volume	1102	vph
Through-volume 15-min. flow rate	612	v
Running time	156.0	sec
v/c ratio	0.35	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	9.1	sec
Filtering/metering factor, I	0.943	
Incremental delay	0.5	sec
Control delay	9.7	sec/v
Total travel speed, Sa	26.7	mph
Total urban street LOS	B	

West Loop Road

```
_____PLANNING ANALYSIS_____
Analyst:                Kondala Rao Mantri
Agency/Co.:             Stanley Consult
Date Performed:         5/9/2006
Analysis Time Period:   P.M. Peak Hour
Urban Street:           West Loop Road
Direction of Travel:
Jurisdiction:           Mohave County, AZ
Analysis Year:          2025
Project ID:  Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT    20000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                   0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes     50          %

_____Roadway Characteristics_____

Number of through lanes one direction, N  2
Free flow speed, FFS                       35         mph
Urban class                                 2
Section length                             3.20       miles
Median                                     Yes
Left-turn bays                             Yes

_____Signal Characteristics_____

Signalized intersections               2
Arrival type, AT                       3
Signal type (k = 0.5 for planning)     Actuated
Cycle length, C                        90.0       sec
Effective green ratio, g/C             0.600

_____Results_____

Annual average daily traffic, AADT     20000      vpd
Two-way hourly volume                  1800       vph
Hourly directional volume               900       vph
Through-volume 15-min. flow rate        500       v
Running time                           329.1      sec
v/c ratio                               0.23
Through capacity                       2160       vph
Progression factor, PF                 1.000
Uniform delay                           8.4       sec
Filtering/metering factor, I            0.982
Incremental delay                       0.2       sec
Control delay                           8.6       sec/v
Total travel speed, Sa                 33.3       mph
Total urban street LOS                   B
```

2040 Results

HCS Arterial Planning Results – 2040 P.M. Peak Hour

Exterior Roadways

Aquarius Drive

```
_____PLANNING ANALYSIS_____
Analyst:                Kondala Rao Mantri
Agency/Co.:             Stanley Consultants, Inc
Date Performed:         5/9/2006
Analysis Time Period:   P.M. Peak Hour
Urban Street:           Aquarius Drive
Direction of Travel:
Jurisdiction:           Mohave County, AZ
Analysis Year:          2040
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT   28000      vpd
Planning analysis hour factor, K      0.090
Directional distribution factor, D    0.500
Peak-hour factor, PHF                 0.900
Adjusted saturation flow rate         1800       pcphgpl
Percent turns from exclusive lanes    50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                        40         mph
Urban class                                 2
Section length                              4.60       miles
Median                                      No
Left-turn bays                              Yes


_____Signal Characteristics_____

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0       sec
Effective green ratio, g/C            0.600


_____Results_____

Annual average daily traffic, AADT    28000      vpd
Two-way hourly volume                 2520       vph
Hourly directional volume             1260       vph
Through-volume 15-min. flow rate      700        v
Running time                          414.0      sec
v/c ratio                             0.34
Through capacity                      2050       vph
Progression factor, PF                1.000
Uniform delay                         9.1        sec
Filtering/metering factor, I          0.949
Incremental delay                     0.4        sec
Control delay                         9.5        sec/v
Total travel speed, Sa                38.2       mph
Total urban street LOS                A
```

Aztec Road

```
_____PLANNING ANALYSIS_____
Analyst:              Kondala Rao Mantri
Agency/Co.:           Stanley Consultants, Inc.
Date Performed:       5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street:         Aztec Road
Direction of Travel:
Jurisdiction:         Mohave County, AZ
Analysis Year:        2040
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT    46000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800      pcphgpl
Percent turns from exclusive lanes     50        %


_____Roadway Characteristics_____

Number of through lanes one direction, N  3
Free flow speed, FFS                       45       mph
Urban class                                2
Section length                             4.40     miles
Median                                     Yes
Left-turn bays                             Yes


_____Signal Characteristics_____

Signalized intersections               2
Arrival type, AT                       3
Signal type (k = 0.5 for planning)     Actuated
Cycle length, C                        90.0      sec
Effective green ratio, g/C             0.600


_____Results_____

Annual average daily traffic, AADT    46000      vpd
Two-way hourly volume                  4140       vph
Hourly directional volume              2070       vph
Through-volume 15-min. flow rate       1150       v
Running time                           352.0      sec
v/c ratio                              0.35
Through capacity                       3240       vph
Progression factor, PF                 1.000
Uniform delay                          9.1        sec
Filtering/metering factor, I           0.943
Incremental delay                      0.3        sec
Control delay                          9.4        sec/v
Total travel speed, Sa                 42.7       mph
Total urban street LOS                 A
```

Bacobi Road

```
_____PLANNING ANALYSIS_____
Analyst:                 Kondala Rao Mantri
Agency/Co.:              Stanley Consultants, Inc
Date Performed:          5/9/2006
Analysis Time Period:    P.M. Peak Hour
Urban Street:            Bacobi Road
Direction of Travel:
Jurisdiction:            Mohave County, AZ
Analysis Year:           2040
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT    38000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes     50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N  2
Free flow speed, FFS                      45        mph
Urban class                               2
Section length                            4.40      miles
Median                                    Yes
Left-turn bays                            Yes


_____Signal Characteristics_____

Signalized intersections               2
Arrival type, AT                       3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                        90.0       sec
Effective green ratio, g/C             0.600


_____Results_____

Annual average daily traffic, AADT    38000      vpd
Two-way hourly volume                  3420       vph
Hourly directional volume              1710       vph
Through-volume 15-min. flow rate       950        v
Running time                           352.0      sec
v/c ratio                              0.44
Through capacity                       2160       vph
Progression factor, PF                 1.000
Uniform delay                          9.8        sec
Filtering/metering factor, I           0.899
Incremental delay                      0.6        sec
Control delay                          10.4       sec/v
Total travel speed, Sa                 42.5       mph
Total urban street LOS                 A
```

Colorado Road

```
_____PLANNING ANALYSIS_____
Analyst:                 Kondala Rao Mantri
Agency/Co.:              Stanley Consultants, Inc
Date Performed:          5/9/2006
Analysis Time Period:    P.M. Peak Hour
Urban Street:            Colorado Road
Direction of Travel:
Jurisdiction:            Mohave County, AZ
Analysis Year:           2040
Project ID:  Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT    22000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D      0.500
Peak-hour factor, PHF                    0.900
Adjusted saturation flow rate           1800      pcphgpl
Percent turns from exclusive lanes       50        %

_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                       45        mph
Urban class                                2
Section length                             4.60      miles
Median                                     Yes
Left-turn bays                             Yes

_____Signal Characteristics_____

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0       sec
Effective green ratio, g/C            0.600

_____Results_____

Annual average daily traffic, AADT    22000      vpd
Two-way hourly volume                  1980       vph
Hourly directional volume               990       vph
Through-volume 15-min. flow rate        550       v
Running time                            368.0      sec
v/c ratio                               0.25
Through capacity                        2160       vph
Progression factor, PF                  1.000
Uniform delay                            8.5       sec
Filtering/metering factor, I             0.977
Incremental delay                        0.3       sec
Control delay                            8.8       sec/v
Total travel speed, Sa                   43.0      mph
Total urban street LOS                   A
```

Sacramento Road

```
_____PLANNING ANALYSIS_____
Analyst:                 Kondala Rao Mantri
Agency/Co.:              Stanley Consultants, Inc
Date Performed:          5/9/2006
Analysis Time Period:    P.M. Peak Hour
Urban Street:            Sacramento Road
Direction of Travel:
Jurisdiction:            Mohave County, AZ
Analysis Year:           2040
Project ID:  Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT     21000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes     50         %

_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                        40         mph
Urban class                                 2
Section length                              5.00       miles
Median                                      Yes
Left-turn bays                              Yes

_____Signal Characteristics_____

Signalized intersections                2
Arrival type, AT                        3
Signal type (k = 0.5 for planning)      Actuated
Cycle length, C                         90.0       sec
Effective green ratio, g/C              0.600

_____Results_____

Annual average daily traffic, AADT     21000      vpd
Two-way hourly volume                  1890       vph
Hourly directional volume              945        vph
Through-volume 15-min. flow rate       525        v
Running time                           450.0      sec
v/c ratio                              0.24
Through capacity                       2160       vph
Progression factor, PF                 1.000
Uniform delay                          8.4        sec
Filtering/metering factor, I           0.979
Incremental delay                      0.3        sec
Control delay                          8.7        sec/v
Total travel speed, Sa                 38.5       mph
Total urban street LOS                 A
```

ST-RH038196

Shinarump Drive

```
_____PLANNING ANALYSIS_____
Analyst:                  Kondala Rao Mantri
Agency/Co.:               Stanley Consultants, Inc
Date Performed:           5/9/2006
Analysis Time Period:     P.M. Peak Hour
Urban Street:             Shinarump Drive
Direction of Travel:
Jurisdiction:             Mohave County, AZ
Analysis Year:            2040
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT    28000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                   0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes     50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N   3
Free flow speed, FFS                       45         mph
Urban class                                2
Section length                             5.00       miles
Median                                     Yes
Left-turn bays                             Yes


_____Signal Characteristics_____

Signalized intersections               2
Arrival type, AT                       3
Signal type (k = 0.5 for planning)     Actuated
Cycle length, C                        90.0       sec
Effective green ratio, g/C             0.600


_____Results_____

Annual average daily traffic, AADT    28000      vpd
Two-way hourly volume                  2520       vph
Hourly directional volume              1260       vph
Through-volume 15-min. flow rate       700        v
Running time                           400.0      sec
v/c ratio                              0.22
Through capacity                       3240       vph
Progression factor, PF                 1.000
Uniform delay                          8.3        sec
Filtering/metering factor, I           0.985
Incremental delay                      0.2        sec
Control delay                          8.4        sec/v
Total travel speed, Sa                 43.2       mph
Total urban street LOS                 A
```

Tombstone Trail

```
_____PLANNING ANALYSIS_____
Analyst:                Kondala Rao Mantri
Agency/Co.:             Stanley Consultants, Inc
Date Performed:         5/9/2006
Analysis Time Period:   P.M. Peak Hour
Urban Street:           Tombstone Trail
Direction of Travel:
Jurisdiction:           Mohave County, AZ
Analysis Year:          2040
Project ID:  Golden Valley Ranch Master Traffic Study


_____Traffic Characteristics_____

Annual average daily traffic, AADT   11000      vpd
Planning analysis hour factor, K      0.090
Directional distribution factor, D    0.500
Peak-hour factor, PHF                 0.900
Adjusted saturation flow rate         1800       pcphgpl
Percent turns from exclusive lanes    50         %


_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                        40         mph
Urban class                                 2
Section length                              8.00       miles
Median                                      Yes
Left-turn bays                              Yes


_____Signal Characteristics_____

Signalized intersections                2
Arrival type, AT                        3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                        90.0      sec
Effective green ratio, g/C             0.600


_____Results_____

Annual average daily traffic, AADT   11000      vpd
Two-way hourly volume                 990        vph
Hourly directional volume             495        vph
Through-volume 15-min. flow rate      275        v
Running time                          720.0      sec
v/c ratio                             0.13
Through capacity                      2160       vph
Progression factor, PF                1.000
Uniform delay                         7.8        sec
Filtering/metering factor, I          0.996
Incremental delay                     0.1        sec
Control delay                         7.9        sec/v
Total travel speed, Sa                39.1       mph
Total urban street LOS                A
```

ST-RH038198

Interior Roadways

Aztec Road Extension

```
_____PLANNING ANALYSIS_____
Analyst:              Kondala Rao Mantri
Agency/Co.:           Stanley Consultants, Inc
Date Performed:       5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street:         Aztec Road Extension
Direction of Travel:
Jurisdiction:         Mohave County, AZ
Analysis Year:        2040
Project ID:  Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT    44000     vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800      pcphgpl
Percent turns from exclusive lanes     50        %

_____Roadway Characteristics_____

Number of through lanes one direction, N  3
Free flow speed, FFS                      45        mph
Urban class                               2
Section length                            2.30      miles
Median                                    Yes
Left-turn bays                            Yes

_____Signal Characteristics_____

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0      sec
Effective green ratio, g/C            0.600

_____Results_____

Annual average daily traffic, AADT    44000     vpd
Two-way hourly volume                 3960      vph
Hourly directional volume             1980      vph
Through-volume 15-min. flow rate      1100      v
Running time                          184.0     sec
v/c ratio                             0.34
Through capacity                      3240      vph
Progression factor, PF                1.000
Uniform delay                         9.0       sec
Filtering/metering factor, I          0.950
Incremental delay                     0.3       sec
Control delay                         9.3       sec/v
Total travel speed, Sa                40.9      mph
Total urban street LOS                A
```

ST-RH038199

Bacobi Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Bacobi Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	43000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	35	mph
Urban class	3	
Section length	0.60	miles
Median	No	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	43000	vpd
Two-way hourly volume	3870	vph
Hourly directional volume	1935	vph
Through-volume 15-min. flow rate	1075	v
Running time	67.2	sec
v/c ratio	0.52	
Through capacity	2050	vph
Progression factor, PF	1.000	
Uniform delay	10.5	sec
Filtering/metering factor, I	0.839	
Incremental delay	0.8	sec
Control delay	11.3	sec/v
Total travel speed, Sa	24.0	mph
Total urban street LOS	B	

Centennial Road Extension

```
_____PLANNING ANALYSIS_____
Analyst:                  Kondala Rao Mantri
Agency/Co.:               Stanley Consultants, Inc
Date Performed:           5/9/2006
Analysis Time Period:     P.M. Peak Hour
Urban Street:             Centennial Road Extension
Direction of Travel:
Jurisdiction:             Mohave County, AZ
Analysis Year:            2040
Project ID:  Golden Valley Ranch Master Traffic Study
```

```
_____Traffic Characteristics_____

Annual average daily traffic, AADT      33000     vpd
Planning analysis hour factor, K        0.090
Directional distribution factor, D      0.500
Peak-hour factor, PHF                   0.900
Adjusted saturation flow rate           1800      pcphgpl
Percent turns from exclusive lanes      50        %
```

```
_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                        35        mph
Urban class                                 3
Section length                              1.00      miles
Median                                      Yes
Left-turn bays                              Yes
```

```
_____Signal Characteristics_____

Signalized intersections                2
Arrival type, AT                        3
Signal type (k = 0.5 for planning)      Actuated
Cycle length, C                         90.0      sec
Effective green ratio, g/C              0.600
```

```
_____Results_____

Annual average daily traffic, AADT      33000     vpd
Two-way hourly volume                   2970      vph
Hourly directional volume               1485      vph
Through-volume 15-min. flow rate        825       v
Running time                            103.0     sec
v/c ratio                               0.38
Through capacity                        2160      vph
Progression factor, PF                  1.000
Uniform delay                           9.3       sec
Filtering/metering factor, I            0.931
Incremental delay                       0.5       sec
Control delay                           9.8       sec/v
Total travel speed, Sa                  29.4      mph
Total urban street LOS                  B
```

ST-RH038201

Cerbat Road Extension

_____PLANNING ANALYSIS_____

Analyst: Kondala Rao Mantri
Agency/Co.:   Stanley Consultants, Inc
Date Performed: 5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street: Cerbat Road Extension
Direction of Travel:
Jurisdiction: Mohave County, AZ
Analysis Year: 2040
Project ID: Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT   10000   vpd
Planning analysis hour factor, K   0.090
Directional distribution factor, D   0.500
Peak-hour factor, PHF   0.900
Adjusted saturation flow rate   1800   pcphgpl
Percent turns from exclusive lanes   50   %

_____Roadway Characteristics_____

Number of through lanes one direction, N 2
Free flow speed, FFS   35   mph
Urban class   3
Section length   1.00   miles
Median   No
Left-turn bays   Yes

_____Signal Characteristics_____

Signalized intersections   2
Arrival type, AT   3
Signal type (k = 0.5 for planning)   Actuated
Cycle length, C   90.0   sec
Effective green ratio, g/C   0.600

_____Results_____

Annual average daily traffic, AADT   10000   vpd
Two-way hourly volume   900   vph
Hourly directional volume   450   vph
Through-volume 15-min. flow rate   250   v
Running time   103.0   sec
v/c ratio   0.12
Through capacity   2050   vph
Progression factor, PF   1.000
Uniform delay   7.8   sec
Filtering/metering factor, I   0.997
Incremental delay   0.1   sec
Control delay   7.9   sec/v
Total travel speed, Sa   30.3   mph
Total urban street LOS   A

East Loop Road

_____PLANNING ANALYSIS_____

Analyst: Kondala Rao Mantri
Agency/Co.:   Stanley Consultants, Inc
Date Performed: 5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street: East Loop Road
Direction of Travel:
Jurisdiction: Mohave County, AZ
Analysis Year: 2040
Project ID: Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT   37000   vpd
Planning analysis hour factor, K   0.090
Directional distribution factor, D   0.500
Peak-hour factor, PHF   0.900
Adjusted saturation flow rate   1800   pcphgpl
Percent turns from exclusive lanes   50   %

_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS   35   mph
Urban class   2
Section length   3.50   miles
Median   Yes
Left-turn bays   Yes

_____Signal Characteristics_____

Signalized intersections   2
Arrival type, AT   3
Signal type (k = 0.5 for planning)   Actuated
Cycle length, C   90.0   sec
Effective green ratio, g/C   0.600

_____Results_____

Annual average daily traffic, AADT   37000   vpd
Two-way hourly volume   3330   vph
Hourly directional volume   1665   vph
Through-volume 15-min. flow rate   925   v
Running time   360.0   sec
v/c ratio   0.43
Through capacity   2160   vph
Progression factor, PF   1.000
Uniform delay   9.7   sec
Filtering/metering factor, I   0.906
Incremental delay   0.6   sec
Control delay   10.3   sec/v
Total travel speed, Sa   33.1   mph
Total urban street LOS   B

ST-RH038203

East Middle Road

<pre>
_____PLANNING ANALYSIS_____
Analyst: Kondala Rao Mantri
Agency/Co.:   Stanley Consultants, Inc
Date Performed: 5/9/2006
Analysis Time Period: P.M. Peak hour
Urban Street: East Middle Road
Direction of Travel:
Jurisdiction: Mohave County, AZ`
Analysis Year: 2040
Project ID: Golden Valley Ranch Master Traffic Study
</pre>

<pre>
_____Traffic Characteristics_____

Annual average daily traffic, AADT   8500   vpd
Planning analysis hour factor, K   0.090
Directional distribution factor, D   0.500
Peak-hour factor, PHF   0.900
Adjusted saturation flow rate   1800   pcphgpl
Percent turns from exclusive lanes   50   %
</pre>

<pre>
_____Roadway Characteristics_____

Number of through lanes one direction, N 2
Free flow speed, FFS   30   mph
Urban class   3
Section length   1.40   miles
Median   No
Left-turn bays   No
</pre>

<pre>
_____Signal Characteristics_____

Signalized intersections   2
Arrival type, AT   3
Signal type (k = 0.5 for planning)   Actuated
Cycle length, C   90.0   sec
Effective green ratio, g/C   0.600
</pre>

<pre>
_____Results_____

Annual average daily traffic, AADT   8500   vpd
Two-way hourly volume   765   vph
Hourly directional volume   382   vph
Through-volume 15-min. flow rate   212   v
Running time   168.0   sec
v/c ratio   0.12
Through capacity   1726   vph
Progression factor, PF   1.000
Uniform delay   7.8   sec
Filtering/metering factor, I   0.997
Incremental delay   0.1   sec
Control delay   7.9   sec/v
Total travel speed, Sa   27.4   mph
Total urban street LOS   B
</pre>

Hualapai Drive Extension

PLANNING ANALYSIS

Analyst: Kondala Rao Mantri
Agency/Co.:   Stanley Consultants, Inc
Date Performed: 5/9/2006
Analysis Time Period: P.M. Peak Hour
Urban Street: Hualapai Drive Extension
Direction of Travel:
Jurisdiction: Mohave County, AZ
Analysis Year: 2040
Project ID: Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	13000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	2.20	miles
Median	No	
Left-turn bays	No	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	13000	vpd
Two-way hourly volume	1170	vph
Hourly directional volume	585	vph
Through-volume 15-min. flow rate	325	v
Running time	264.0	sec
v/c ratio	0.19	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	8.1	sec
Filtering/metering factor, I	0.990	
Incremental delay	0.2	sec
Control delay	8.4	sec/v
Total travel speed, Sa	28.2	mph
Total urban street LOS	B	

Indian Wells Road Extension

_____PLANNING ANALYSIS_____
```
Analyst:                Kondala Rao Mantri
Agency/Co.:             Stanley Consultants, Inc
Date Performed:         5/9/2006
Analysis Time Period:   P.M. Peak Hour
Urban Street:           Indian Wells Road Extension
Direction of Travel:
Jurisdiction:           Mohave County, AZ
Analysis Year:          2040
Project ID:  Golden Valley Ranch Master Traffic Study
```

_____Traffic Characteristics_____

```
Annual average daily traffic, AADT     8000       vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes     50         %
```

_____Roadway Characteristics_____

```
Number of through lanes one direction, N   2
Free flow speed, FFS                        30        mph
Urban class                                 3
Section length                              1.30      miles
Median                                      No
Left-turn bays                              No
```

_____Signal Characteristics_____

```
Signalized intersections               2
Arrival type, AT                       3
Signal type (k = 0.5 for planning)     Actuated
Cycle length, C                        90.0       sec
Effective green ratio, g/C             0.600
```

_____Results_____

```
Annual average daily traffic, AADT     8000       vpd
Two-way hourly volume                  720        vph
Hourly directional volume              360        vph
Through-volume 15-min. flow rate       200        v
Running time                           156.0      sec
v/c ratio                              0.12
Through capacity                       1726       vph
Progression factor, PF                 1.000
Uniform delay                          7.7        sec
Filtering/metering factor, I           0.997
Incremental delay                      0.1        sec
Control delay                          7.9        sec/v
Total travel speed, Sa                 27.2       mph
Total urban street LOS                 B
```

Mobile Road Extension

```
_____PLANNING ANALYSIS_____
Analyst:                 Kondala Rao Mantri
Agency/Co.:              Stanley Consultants. Inc
Date Performed:          5/9/2006
Analysis Time Period:    P.M. Peak Hour
Urban Street:            Mobile Road Extension
Direction of Travel:
Jurisdiction:            Mohave County, AZ
Analysis Year:           2040
Project ID:  Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT    23000      vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                  0.900
Adjusted saturation flow rate          1800       pcphgpl
Percent turns from exclusive lanes     50         %

_____Roadway Characteristics_____

Number of through lanes one direction, N  2
Free flow speed, FFS                       35        mph
Urban class                                3
Section length                             0.70      miles
Median                                     No
Left-turn bays                             No

_____Signal Characteristics_____

Signalized intersections              2
Arrival type, AT                      3
Signal type (k = 0.5 for planning)    Actuated
Cycle length, C                       90.0       sec
Effective green ratio, g/C            0.600

_____Results_____

Annual average daily traffic, AADT    23000      vpd
Two-way hourly volume                  2070       vph
Hourly directional volume              1035       vph
Through-volume 15-min. flow rate       575        v
Running time                           75.3       sec
v/c ratio                              0.33
Through capacity                       1726       vph
Progression factor, PF                 1.000
Uniform delay                          9.0        sec
Filtering/metering factor, I           0.952
Incremental delay                      0.5        sec
Control delay                          9.5        sec/v
Total travel speed, Sa                 26.7       mph
Total urban street LOS                 B
```

Ramada Road Extension

```
                                PLANNING ANALYSIS
Analyst:                Kondala Rao Mantri
Agency/Co.:             Stanley Consultants. Inc
Date Performed:         5/9/2006
Analysis Time Period:   P.M. Peak Hour
Urban Street:           Ramada Road Extension
Direction of Travel:
Jurisdiction:           Mohave County, AZ
Analysis Year:          2040
Project ID:  Golden Valley Ranch Master Traffic Study


                            Traffic Characteristics

Annual average daily traffic, AADT   18000     vpd
Planning analysis hour factor, K      0.090
Directional distribution factor, D    0.500
Peak-hour factor, PHF                 0.900
Adjusted saturation flow rate         1800      pcphgpl
Percent turns from exclusive lanes    50        %


                            Roadway Characteristics

Number of through lanes one direction, N  2
Free flow speed, FFS                      35        mph
Urban class                               3
Section length                            2.40      miles
Median                                    No
Left-turn bays                            No


                            Signal Characteristics

Signalized intersections          2
Arrival type, AT                  3
Signal type (k = 0.5 for planning)  Actuated
Cycle length, C                   90.0      sec
Effective green ratio, g/C        0.600


                                 Results

Annual average daily traffic, AADT   18000     vpd
Two-way hourly volume                1620      vph
Hourly directional volume            810       vph
Through-volume 15-min. flow rate     450       v
Running time                         246.9     sec
v/c ratio                            0.26
Through capacity                     1726      vph
Progression factor, PF               1.000
Uniform delay                        8.5       sec
Filtering/metering factor, I         0.975
Incremental delay                    0.4       sec
Control delay                        8.9       sec/v
Total travel speed, Sa               32.6      mph
Total urban street LOS               A
```

Sacramento Road Extension

PLANNING ANALYSIS

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	Sacramento Road Extension
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

Traffic Characteristics

Annual average daily traffic, AADT	36000	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

Roadway Characteristics

Number of through lanes one direction, N	3	
Free flow speed, FFS	45	mph
Urban class	2	
Section length	1.10	miles
Median	Yes	
Left-turn bays	Yes	

Signal Characteristics

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

Results

Annual average daily traffic, AADT	36000	vpd
Two-way hourly volume	3240	vph
Hourly directional volume	1620	vph
Through-volume 15-min. flow rate	900	v
Running time	95.9	sec
v/c ratio	0.28	
Through capacity	3240	vph
Progression factor, PF	1.000	
Uniform delay	8.6	sec
Filtering/metering factor, I	0.971	
Incremental delay	0.2	sec
Control delay	8.8	sec/v
Total travel speed, Sa	34.9	mph
Total urban street LOS	B	

TC Connector

_____PLANNING ANALYSIS_____

Analyst:	Kondala Rao Mantri
Agency/Co.:	Stanley Consultants, Inc
Date Performed:	5/9/2006
Analysis Time Period:	P.M. Peak Hour
Urban Street:	TC Connecter
Direction of Travel:	
Jurisdiction:	Mohave County, AZ
Analysis Year:	2040
Project ID:	Golden Valley Ranch Master Traffic Study

_____Traffic Characteristics_____

Annual average daily traffic, AADT	24500	vpd
Planning analysis hour factor, K	0.090	
Directional distribution factor, D	0.500	
Peak-hour factor, PHF	0.900	
Adjusted saturation flow rate	1800	pcphgpl
Percent turns from exclusive lanes	50	%

_____Roadway Characteristics_____

Number of through lanes one direction, N	2	
Free flow speed, FFS	30	mph
Urban class	3	
Section length	1.30	miles
Median	No	
Left-turn bays	No	

_____Signal Characteristics_____

Signalized intersections	2	
Arrival type, AT	3	
Signal type (k = 0.5 for planning)	Actuated	
Cycle length, C	90.0	sec
Effective green ratio, g/C	0.600	

_____Results_____

Annual average daily traffic, AADT	24500	vpd
Two-way hourly volume	2205	vph
Hourly directional volume	1102	vph
Through-volume 15-min. flow rate	612	v
Running time	156.0	sec
v/c ratio	0.35	
Through capacity	1726	vph
Progression factor, PF	1.000	
Uniform delay	9.1	sec
Filtering/metering factor, I	0.943	
Incremental delay	0.5	sec
Control delay	9.7	sec/v
Total travel speed, Sa	26.7	mph
Total urban street LOS	B	

West Loop Road

```
_____PLANNING ANALYSIS_____
Analyst:                    Kondala Rao Mantri
Agency/Co.:                 Stanley Consult
Date Performed:             5/9/2006
Analysis Time Period:       P.M. Peak Hour
Urban Street:               West Loop Road
Direction of Travel:
Jurisdiction:               Mohave County, AZ
Analysis Year:              2040
Project ID:  Golden Valley Ranch Master Traffic Study
```

```
_____Traffic Characteristics_____

Annual average daily traffic, AADT    23000       vpd
Planning analysis hour factor, K       0.090
Directional distribution factor, D     0.500
Peak-hour factor, PHF                   0.900
Adjusted saturation flow rate          1800        pcphgpl
Percent turns from exclusive lanes     50          %
```

```
_____Roadway Characteristics_____

Number of through lanes one direction, N   2
Free flow speed, FFS                        35          mph
Urban class                                 2
Section length                              3.20        miles
Median                                      Yes
Left-turn bays                              Yes
```

```
_____Signal Characteristics_____

Signalized intersections                2
Arrival type, AT                        3
Signal type (k = 0.5 for planning)      Actuated
Cycle length, C                         90.0        sec
Effective green ratio, g/C              0.600
```

```
_____Results_____

Annual average daily traffic, AADT    23000       vpd
Two-way hourly volume                  2070        vph
Hourly directional volume              1035        vph
Through-volume 15-min. flow rate       575         v
Running time                           329.1       sec
v/c ratio                              0.27
Through capacity                       2160        vph
Progression factor, PF                 1.000
Uniform delay                          8.6         sec
Filtering/metering factor, I           0.974
Incremental delay                      0.3         sec
Control delay                          8.9         sec/v
Total travel speed, Sa                 33.2        mph
Total urban street LOS                 B
```

Results Summary

GOLDEN VALLEY RANCH
MASTER TRAFFIC STUDY
RESULTS FROM THE HCS ANALYSIS
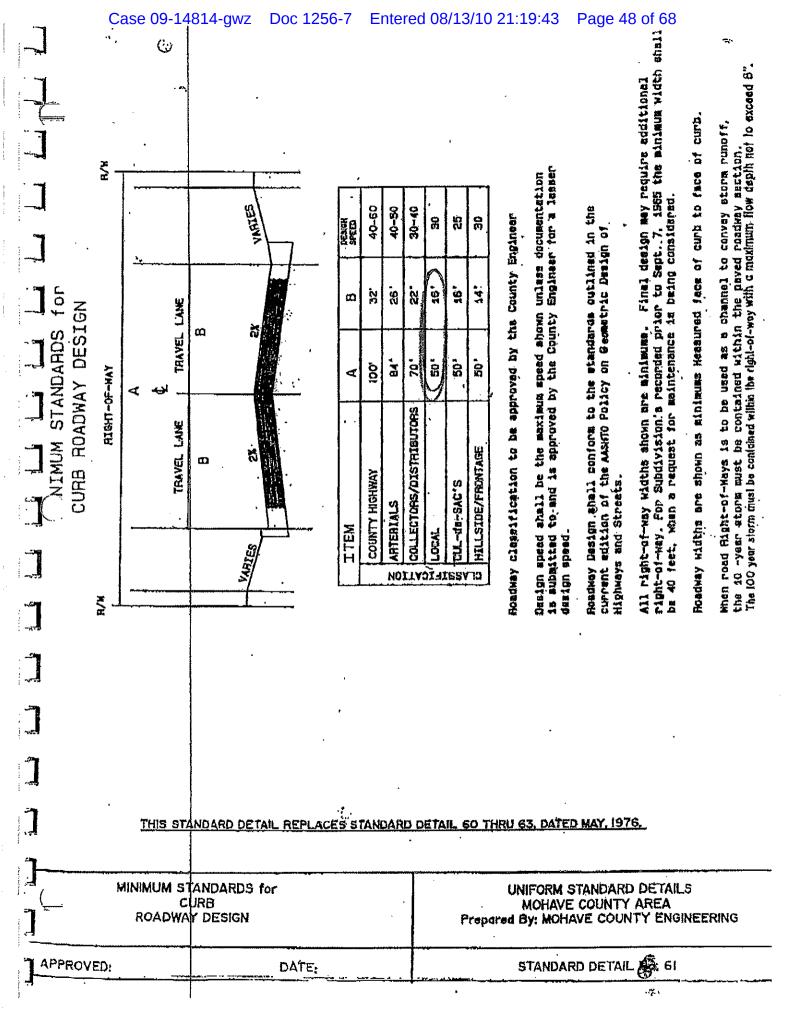
Roadway	Number of Lanes	Design Speed (mph)	2015 LOS	2025 LOS	2040 LOS
Aquarius Drive	4	40	A	A	A
Aztec Road	6	45	A	A	A
Bacobi Road	4	45	A	A	A
Colorado Road	4	45	A	A	A
Sacramento Road	4	40	A	A	A
Shinarump Road	6	45	A	A	A
Tombstone Trail	4	40	A	A	A
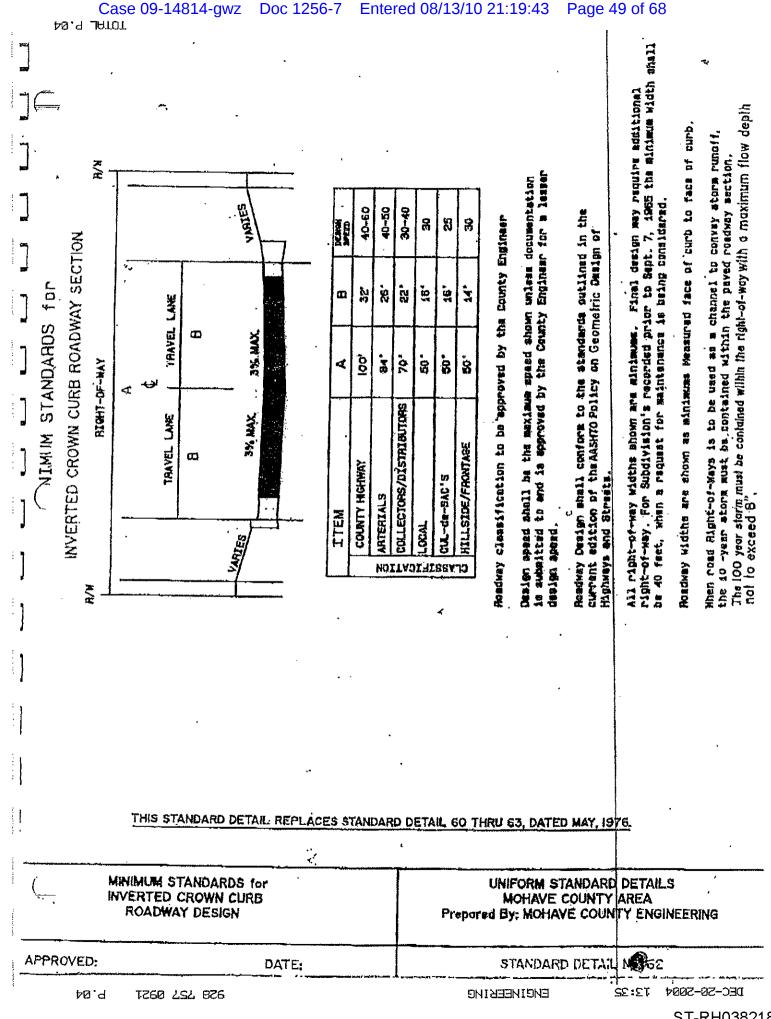
Roadway	Number of Lanes	Design Speed (mph)	2015 LOS	2025 LOS	2040 LOS
Aztec Road Extension	6	45	A	A	A
Bacobi Road Extension	4	35	B	B	B
Centennial Road Extension	4	35	A	B	B
Cerbat Road Extension	4	35	A	A	A
East Loop Road	4	35	B	B	B
East Middle Road	4	30	B	B	B
Hualapai Drive Extension	4	30	B	B	B
Indian Wells Road Extension	4	30	B	B	B
Mobile Road Extension	4	35	B	B	B
Ramada Road Extension	4	35	A	A	A
Sacramento Road Extension	6	45	A	B	B
Town Center Connector	4	30	B	B	B
West Loop Road	4	35	B	B	B

5/10/2006

Stanley Consultants INC.

ST-RH038213

Appendix C

Standards

Mohave County Public Works
Typical Roadway Sections

MINIMUM STANDARDS for NON-CURB ROADWAY DESIGN

CLASSIFICATION / ITEM	A	B	C	D	E	DESIGN SPEED
COUNTY HIGHWAY	100'	12'	8"	4'	3:1	40-60
ARTERIALS	84'	12'	8"	4'	3:1	40-50
COLLECTORS/DISTRIBUTORS	70'	12'	8"	4'	3:1	30-40
LOCAL	50'	12'	8"	—	3:1	30
CUL-de-SAC'S	50'	12'	8"	—	3:1	25
HILLSIDE/FRONTAGE	50'	12'	2"	—	3:1	30

Roadway classification to be approved by the County Engineer

Design speed shall be the maximum speed shown unless documentation is submitted to and is approved by the County Engineer for a lesser design speed.

Roadway Design shall conform to the standards outlined in the current edition of the AASHTO Policy on Geometric Design of Highways and Streets.

All right-of-way widths shown are minimums. Final design may require additional right-of-way. For Subdivisions recorded prior to Sept. 7, 1965 the minimum width shall be 40 feet, when a request for maintenance is being considered.

The 10-year design storm must be contained within the improved ditch section removed from the shoulder. The 100-year design storm can not overtop the centerline of the road.

THIS STANDARD DETAIL REPLACES STANDARD DETAIL 60 THRU 63, DATED MAY, 1976

MINIMUM STANDARDS for NON-CURB ROADWAY DESIGN	UNIFORM STANDARD DETAILS MOHAVE COUNTY AREA Prepared By: MOHAVE COUNTY ENGINEERING
APPROVED: DATE:	STANDARD DETAIL No. 60

ST-RH038216

MINIMUM STANDARDS for CURB ROADWAY DESIGN

CLASSIFICATION / ITEM	A	B	DESIGN SPEED
COUNTY HIGHWAY	100'	32'	40-60
ARTERIALS	84'	26'	40-50
COLLECTORS/DISTRIBUTORS	70'	22'	30-40
LOCAL	50'	16'	30
CUL-de-SAC'S	50'	16'	25
HILLSIDE/FRONTAGE	50'	14'	30

Roadway classification to be approved by the County Engineer

Design speed shall be the maximum speed shown unless documentation is submitted to and is approved by the County Engineer for a lesser design speed.

Roadway Design shall conform to the standards outlined in the current edition of the AASHTO Policy on Geometric Design of Highways and Streets.

All right-of-way widths shown are minimums. Final design may require additional right-of-way. For Subdivision's recorded prior to Sept. 7, 1965 the minimum width shall be 40 feet, when a request for maintenance is being considered.

Roadway widths are shown as minimums measured face of curb to face of curb.

When road Right-of-Ways is to be used as a channel to convey storm runoff, the 10-year storm must be contained within the paved roadway section. The 100 year storm must be contained within the right-of-way with a maximum flow depth not to exceed 8".

THIS STANDARD DETAIL REPLACES STANDARD DETAIL 60 THRU 63, DATED MAY, 1976.

MINIMUM STANDARDS for CURB ROADWAY DESIGN	UNIFORM STANDARD DETAILS MOHAVE COUNTY AREA Prepared By: MOHAVE COUNTY ENGINEERING
APPROVED: DATE:	STANDARD DETAIL 61

MINIMUM STANDARDS for
INVERTED CROWN CURB ROADWAY SECTION

		CLASSIFICATION			A	B	DESIGN SPEED
ITEM		COUNTY HIGHWAY			100'	32'	40-60
		ARTERIALS			84'	26'	40-50
		COLLECTORS/DISTRIBUTORS			70'	22'	30-40
		LOCAL			50'	18'	30
		CUL-de-SAC'S			50'	16'	25
		HILLSIDE/FRONTAGE			50'	14'	30

Roadway classification to be approved by the County Engineer

Design speed shall be the maximum speed shown unless documentation is submitted to and is approved by the County Engineer for a lesser design speed.

Roadway Design shall conform to the standards outlined in the current edition of the AASHTO Policy on Geometric Design of Highways and Streets.

All right-of-way widths shown are minimum. Final design may require additional right-of-way. For Subdivision's recorded prior to Sept. 7, 1965 the minimum width shall be 40 feet, when a request for maintenance is being considered.

Roadway widths are shown as minimum measured face of curb to face of curb.

When road Right-of-Ways is to be used as a channel to convey storm runoff, the 10-year storm must be contained within the paved roadway section. The 100 year storm must be contained within the right-of-way with a maximum flow depth not to exceed "B".

THIS STANDARD DETAIL REPLACES STANDARD DETAIL 60 THRU 63, DATED MAY, 1976.

MINIMUM STANDARDS for INVERTED CROWN CURB ROADWAY DESIGN	UNIFORM STANDARD DETAILS MOHAVE COUNTY AREA Prepared By: MOHAVE COUNTY ENGINEERING
APPROVED: DATE:	STANDARD DETAIL NO. 62

Golden Valley Ranch
Project Specific
Typical Roadway Sections

TYPICAL LOOP RD. #1 STREET SECTION
(PUBLIC)   NOT TO SCALE

* — 91' IF ADJACENT TO GOLF COURSE
** — 4.5' IF ADJACENT TO GOLF COURSE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-G

DATE: 20 DEC 2005
REV:

ST-RH038220

PL   R/W   CL   R/W   PL

*130'

25' COMMON ELEMENT/PUE

24"VERT. C.&G. (TYPE "A")

80' ROW (PUBLIC)

24"VERT. C.&G. (TYPE "A")

**25' COMMON ELEMENT/PUE

TYPE "A" SINGLE CURB

25' COMMON ELEMENT/PUE

TYPE "A" SINGLE CURB

25'   25'

14'   11'   11'   14'

LOT DIMENSION

1.5%   2%   2%   1.5%   VARIES   LOT DIMENSION

5' MEANDERING SIDEWALK

5' MEANDERING SIDEWALK

* — 117' IF ADJACENT TO GOLF COURSE
** — 13' IF ADJACENT TO GOLF COURSE

TYPICAL LOOP RD. #2 STREET SECTION
(PUBLIC)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-H

DATE: 20 DEC 2005
REV:

ST-RH038221

PL Ⅽ PL

PUE   50' PUE   PUE

9' DRAINAGE   5' DRAINAGE
EASEMENT   EASEMENT

36' BC-BC
(PRIVATE)

15.5'   15.5'

LOT DIMENSION   1.5%   2%   2%   LOT DIMENSION

30" ROLL CURB
AND GUTTER

4' SIDEWALK

TYPICAL LOCAL STREET SECTION
(PRIVATE)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
      TO PL TO BE MAINTAINED BY MASTER
      HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396   Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-A

DATE: 20 DEC 2005
REV:

ST-RH038222

TYPICAL COLLECTOR STREET SECTION
(PRIVATE)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-B

DATE: 20 DEC 2005
REV:

ST-RH038223

PL/PUE

C (centerline)

PL/PUE

VARIES 70'-85' PUE

BC

BC

COMMON ELEMENT
VARIES 0'-16'

COMMON ELEMENT
VARIES 0'-16'

VARIES 53'-70' BC-BC
(PRIVATE)

24" VERT. CURB & GUTTER
(TYPE "A")

VARIES
16'-22.5'

VARIES
16'-25'

VARIES
16'-22.5'

24" VERT. CURB & GUTTER
(TYPE "A")

VARIES

VARIES

1.5%

5' MEANDERING
SIDEWALK

0.5' TYPE "A" SINGLE CURB

TYPICAL ENTRY STREET SECTION
(PRIVATE)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
5820 S. EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 Fax (702) 369-9793

SCALE: NOT TO SCALE

FIGURE I-C

DATE: 20 DEC 2005
REV:

ST-RH038224

PL/PUE   R/W   C̶L   R/W
                                                  PUE

79' PUE

25' COMMON ELEMENT

54' ROW
(PUBLIC)

25'   25'
14' 11' 11' 14'

VARIES

LOT DIMENSION

1.5%   2%   2%   4:1 MAX

5' MEANDERING SIDEWALK

24" VERT. CURB & GUTTER
(TYPE "A")

GOLF COURSE

TYPICAL MINOR ARTERIAL STREET
SECTION FRONTING GOLF COURSE
(PUBLIC)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
       TO PL TO BE MAINTAINED BY MASTER
       HOMEOWNER ASSOCIATION
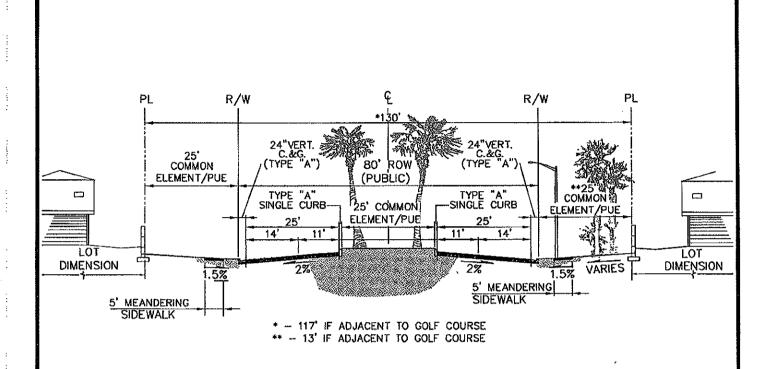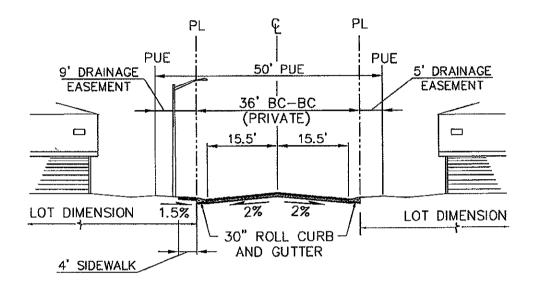
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GOLDEN VALLEY RANCH

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SCALE: NOT TO SCALE

FIGURE I-D

DATE: 20 DEC 2005
REV:

ST-RH038225

TYPICAL MINOR ARTERIAL STREET SECTION
(PUBLIC)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
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SCALE: NOT TO SCALE

FIGURE I-E

DATE: 20 DEC 2005
REV:

ST-RH038226

TYPICAL MINOR ARTERIAL STREET SECTION
WITH MEDIAN   (PUBLIC)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION

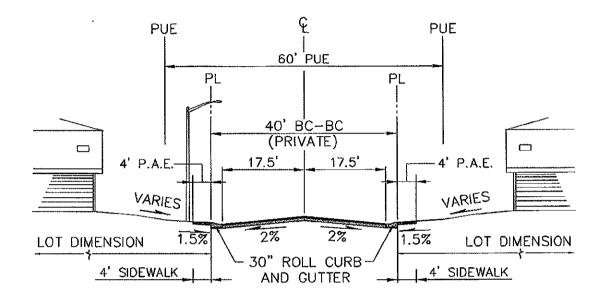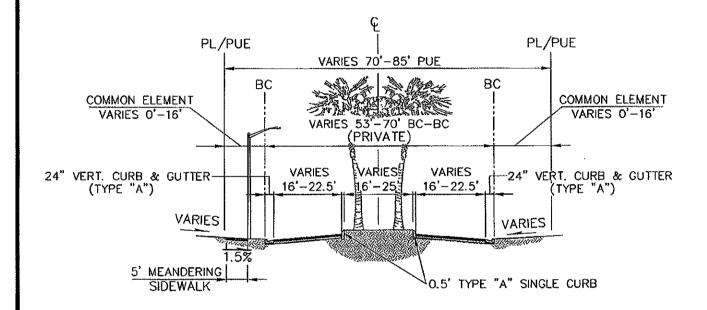## RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

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SCALE: NOT TO SCALE

FIGURE 1-F

DATE: 20 DEC 2005
REV:

ST-RH038227

PL/PUE   R/W   ℄   R/W   PL/PUE

*104'

24"VERT.
C.&G.
(TYPE "A")   69' ROW
(PUBLIC)   24"VERT.
C.&G.
(TYPE "A")

17.5'
COMMON
ELEMENT   TYPE "A"
SINGLE CURB   TYPE "A"
SINGLE CURB   **17.5'
COMMON
ELEMENT

25'   14'   25'

14'   11'   11'   14'

VARIES   VARIES

LOT
DIMENSION   1.5%   2%   2%   1.5%   LOT
DIMENSION

5' MEANDERING
SIDEWALK   5' MEANDERING
SIDEWALK

* – 91' IF ADJACENT TO GOLF COURSE
** – 4.5' IF ADJACENT TO GOLF COURSE

TYPICAL LOOP RD. #1 STREET SECTION
(PUBLIC)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
      TO PL TO BE MAINTAINED BY MASTER
      HOMEOWNER ASSOCIATION

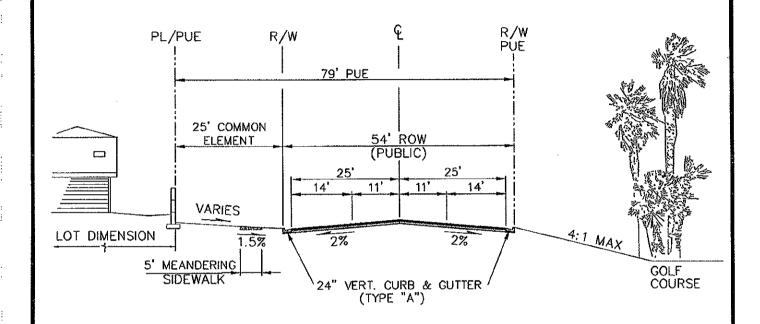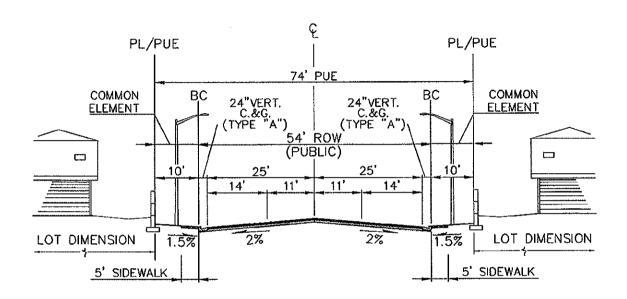## RHODES HOMES ARIZONA, LLC
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SCALE: NOT TO SCALE

FIGURE I-G

DATE: 20 DEC 2005
REV:

ST-RH038228

PL   R/W   C̶L   R/W   PL

*130'

25' COMMON ELEMENT/PUE

24" VERT. C.&G. (TYPE "A")

80' ROW (PUBLIC)

24" VERT. C.&G. (TYPE "A")

**25' COMMON ELEMENT/PUE

TYPE "A" SINGLE CURB

25' COMMON ELEMENT/PUE

TYPE "A" SINGLE CURB

25'   14'   11'   11'   14'   25'

LOT DIMENSION

1.5%   2%   2%   1.5%   VARIES

LOT DIMENSION

5' MEANDERING SIDEWALK

5' MEANDERING SIDEWALK

* — 117' IF ADJACENT TO GOLF COURSE
** — 13' IF ADJACENT TO GOLF COURSE

TYPICAL LOOP RD. #2 STREET SECTION
(PUBLIC)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
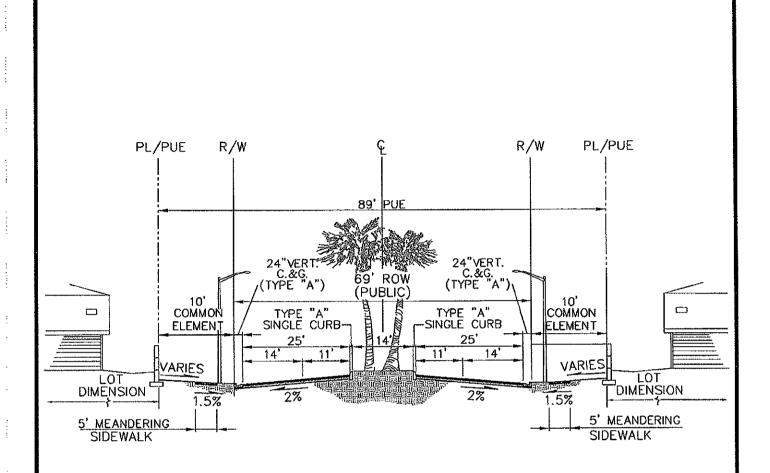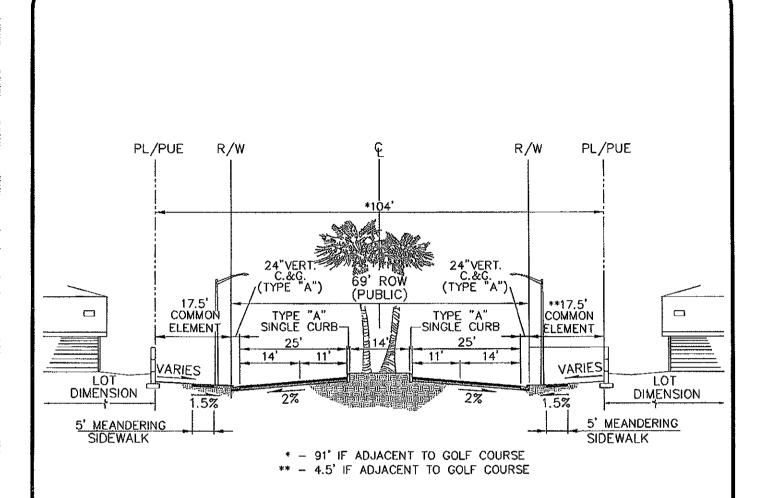HOMEOWNER ASSOCIATION

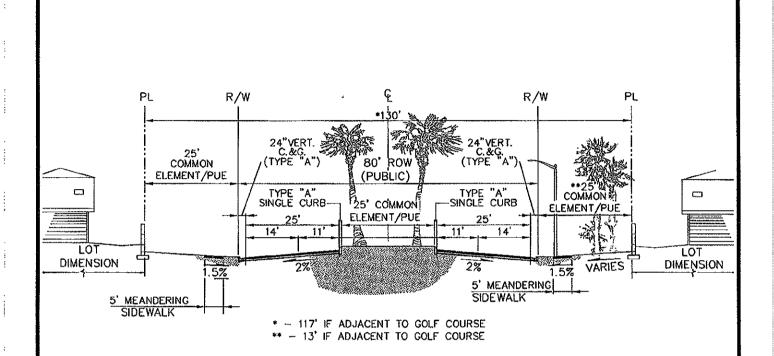## RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

Stanley Consultants INC.
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SCALE: NOT TO SCALE

FIGURE I-H

DATE: 20 DEC 2005
REV:

ST-RH038229

* – 139' IN LOCATIONS ADJACENT TO GOLF COURSE
** – 12' IN LOCATIONS ADJACENT TO GOLF COURSE

TYPICAL MAJOR ARTERIAL STREET SECTION

NOT TO SCALE

(PUBLIC)
NORTH OF GOLF COURSE FROM
ROUND-A-BOUT TO SHINARUMP

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

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SCALE: NOT TO SCALE	
FIGURE I-I	DATE: 20 DEC 2005 REV:

ST-RH038230

FUTURE
R/W
PL

R/W
PL

℄

100' ROW
(PUBLIC)

50'

FUTURE 50'

2'

5'   14'   11'   11'   7'

1.5%   2%

VARIES

5' SIDEWALK

24"VERT. C&G
(TYPE "A")

TYPE "A"
SINGLE CURB

TYPICAL 100' RIGHT-OF-WAY
HALF STREET SECTION
(PUBLIC)
SECTION LINE ROADWAYS

NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION
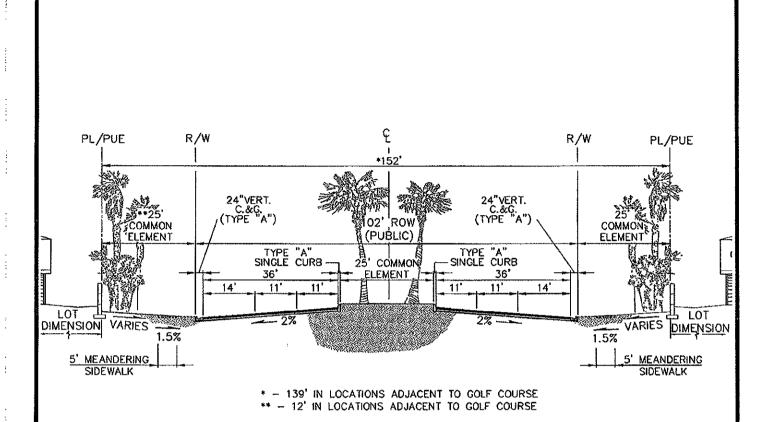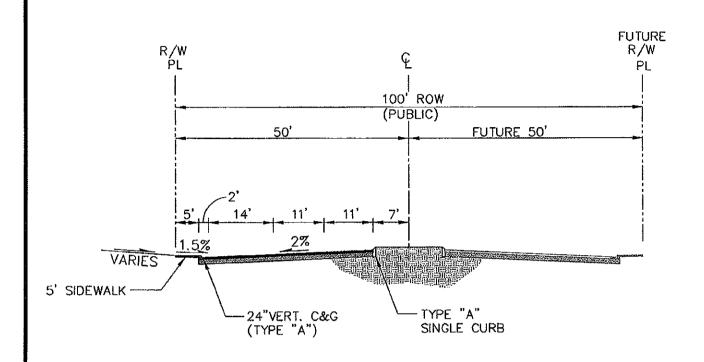
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SCALE: NOT TO SCALE

FIGURE I-J

DATE: 20 DEC 2005
REV:

ST-RH038231

PL
LOT DIMENSION

25' P.U.E. & BC-BC
(PRIVATE)

PL
LOT DIMENSION

CL

10.5'

10.5'

FOG SEAL

VARIES

PG

2%

2%

VARIES

24" RIBBON CURB TYPE B
PER MAG STANDARD DETAIL 220

PRIME COAT

2" ASPHALT OVER 6" TYPE II
BASE AT 95% COMPACTION

NOTE: FINAL PAVEMENT SECTIONS TO BE BASED ON
ADDITIONAL R-VALUE TESTS PERFORMED DURING
CONSTRUCTION OF THE ACTUAL SUBGRADE
MATERIALS AND TRAFFIC INFORMATION.

TYPICAL ALLEY STREET SECTION
(PRIVATE)   NOT TO SCALE

NOTE: ALL LANDSCAPING/WALKWAYS FROM PL
TO PL TO BE MAINTAINED BY MASTER
HOMEOWNER ASSOCIATION
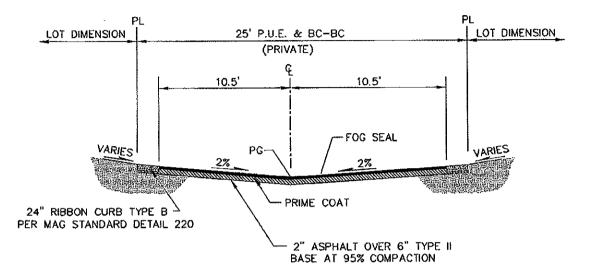
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SCALE: NOT TO SCALE

FIGURE I-K

DATE: 20 DEC 2005
REV:

ST-RH038232

City of Mesa
Intersection Layouts

EFFECTIVE DATE March 1, 2005

MESA STANDARD DETAILS

Amendment
to the
Uniform Standard Details

CITY OF **MESA**
Great People, Quality Service!

ENGINEERING

2005

ARTERIAL STREET INTERSECTION (4 LANES)

ARTERIAL STREET INTERSECTION (6 LANES)

DETAIL NO. M-46.2

REV. 02/15/05

NOT TO SCALE

ST-RH038236

TYPICAL STRIPING CROSS SECTIONS

DETAIL NO. M-46.3

REV. 8/17/04